



Flooding Update

More Rain on the Way, Flooding to Worsen

[Click Here for the Latest 48 Hour Forecast Rainfall Graphic](#)

Additional Rainfall Forecast: Today through Monday

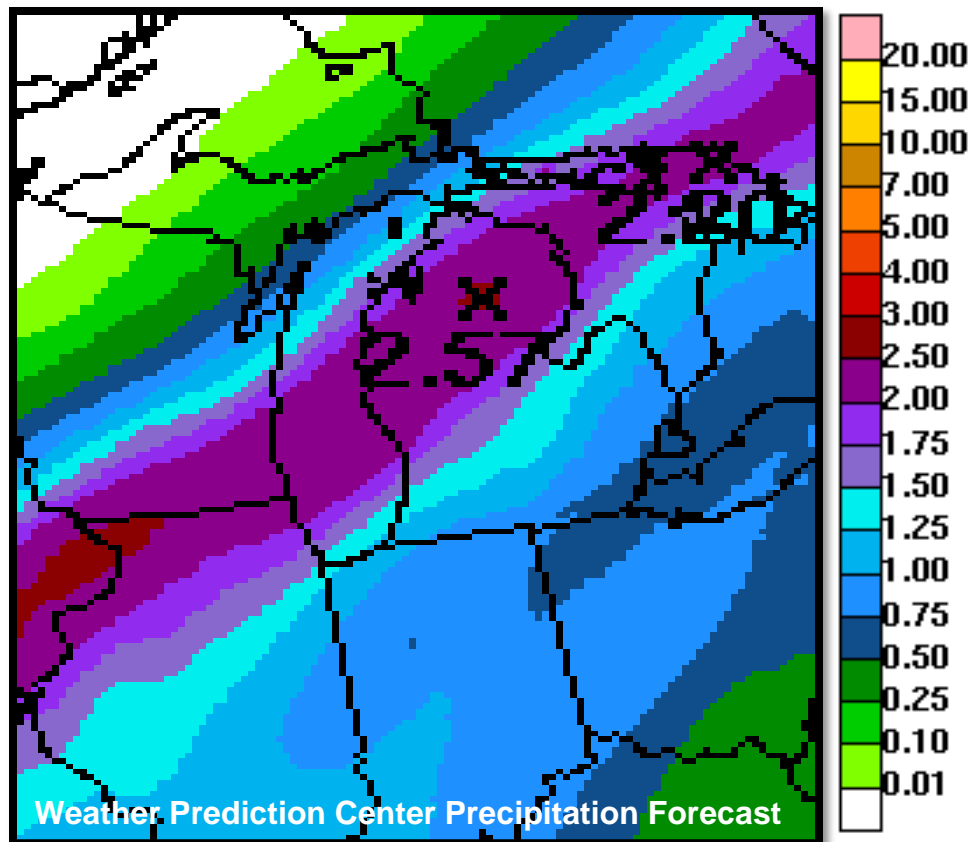
As of 7 am April 13

Minor to Moderate Flooding

Is Occurring or Will Occur
Through Next Week

Additional 1-2 Inches of Rain,
Potentially Up to 3 Inches
Today into Monday

Sharp Rainfall Gradient
From North to South





River Levels Compared to Past Years

All Rivers Currently At or Above Normal

Lower Michigan Streamflow Percentile - Sunday, April 13, 2014

Created: 9:47 AM EDT

Source: USGS

Percentile

- < 3% (Low)
- 3 - 9% (Much Below)
- 10 - 23% (Below)
- 24 - 74% (Normal)
- 75 - 89% (Above)
- 90 - 96% (Much Above)
- > 96% (High)

Created by the National Weather Service
Forecast Office Grand Rapids, Michigan



0 25 50 Miles



Flooding Information



[Click Here For River Levels, Flood Advisories and Flood Warnings](#)

Major Flooding Typically Results in

Significant to Catastrophic
Life-Threatening Flooding
Structures May Be Completely Submerged
Large-Scale Evacuations May Be Needed

Moderate Flooding Typically Results in

Inundation of Some Buildings Likely
Road Closures and Some Areas Cut Off
Some Evacuations May Be Necessary

Minor Flooding Typically Results in

Limited Property Damage
Some Public Threat or Inconvenience

What	<ul style="list-style-type: none">• River flooding is occurring• Widespread Areal flooding of low-lying, poor drainage areas and secondary roads will continue and may worsen
When	<ul style="list-style-type: none">• Streams/Creeks: Minor Flooding to Moderate Flooding Now thru next week• Larger Rivers: Minor Flooding to Moderate Flooding Late Today thru next week• Next wave of rainfall anticipated this evening through Monday morning
Where	<ul style="list-style-type: none">• All of Southwest Lower Michigan
Forecast Confidence	<ul style="list-style-type: none">• High Confidence: Minor Flooding and Moderate Flooding of area tributaries, creeks and streams <u>Will Occur</u>



Severe Weather Details

This Afternoon and Tonight



What	<p>Storms will have the potential to create high wind gusts, heavy downpours and hail</p> <p>Greatest Threats:</p> <ul style="list-style-type: none">• Flooding - Heavy rains expected into Monday• Gusty Winds – In excess of 60 miles per hour possible around storms• Hail – Could exceed 1 inch diameter in strongest storms <p>Lesser Threats:</p> <ul style="list-style-type: none">• Tornadoes- Not likely, but possible over Southern Lower Michigan
When	<ul style="list-style-type: none">• Greatest threat for strong storms 4 p.m. through midnight
Where	<ul style="list-style-type: none">• Rain Threat All of Southwest Lower Michigan• Severe Thunderstorm Threat Greatest from Muskegon to Alma and South
Forecast Confidence	<ul style="list-style-type: none">• Confidence of Storm Development is High• Confidence for Severe Weather Occurring is Low



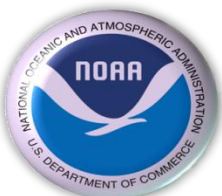
weather.gov/grandrapids





Keep in Mind

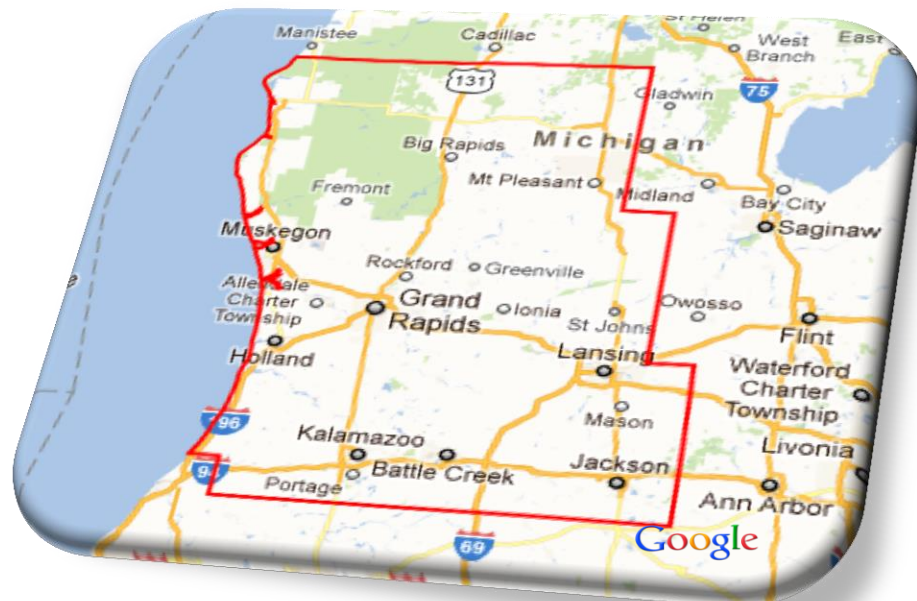
- Rainfall in excess of 2 inches has already fallen over much of Central Lower Michigan in the last 24 hours
- Flooding has been verified in areas that will receive yet another round of heavy rain this evening into Monday
- One large wave of heavy rain with imbedded thunderstorms is expected, areas under storms may yield much higher totals
- 1-2 inches of rain is likely area wide with amounts possibly exceeding 2 inches in many locations
- Flooding will be exacerbated by additional rainfall, new areas of flooding may develop



For Additional Information



Links Below are Clickable in PDF File of the Briefing



Briefing Slides

www.weather.gov/grandrapids/webinars

Rainfall Forecast By Day

<http://go.usa.gov/Tbwe>

Regional Weather Radar Loop

www.weather.gov/radar

River Levels and Forecasts

<http://go.usa.gov/kb6e>

Hazard Summary Page

www.crh.noaa.gov/hazards/grr

NOAA National Weather Service - Grand Rapids, Michigan



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